



## Fuel Constant Set Exercises

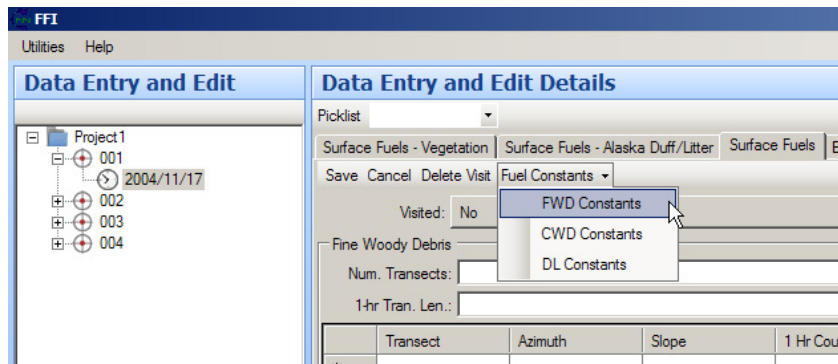
**Note: The metric methods require FCS values in English units**

**In these exercises you will:**

- 1) Enter Fuel Constant Set data for fine woody debris (FWD)
- 2) Enter Fuel Constant Set data for coarse woody debris (CWD)
- 3) Enter Fuel Constant Set data for duff and litter
- 4) Enter Fuel Constant Set data for vegetation

### Exercise 1: Enter Fuel Constant Data for fine woody debris (FWD)

- 1.1 If not already selected, click on **Data Entry and Edit** in the lower left of the screen.
- 1.2 In the left pane tree view select macroplot 001 by clicking on it once. (You might have to click the + sign next to the project icon to see the macroplots.)
- 1.3 Select the first sample event. (You might have to click the + sign next to the macroplot icon to see the sample events.)
- 1.4 Select the **Surface Fuel** protocol tab.
- 1.5 Click the **Fuel Constants** dropdown and select **FWD constants**.

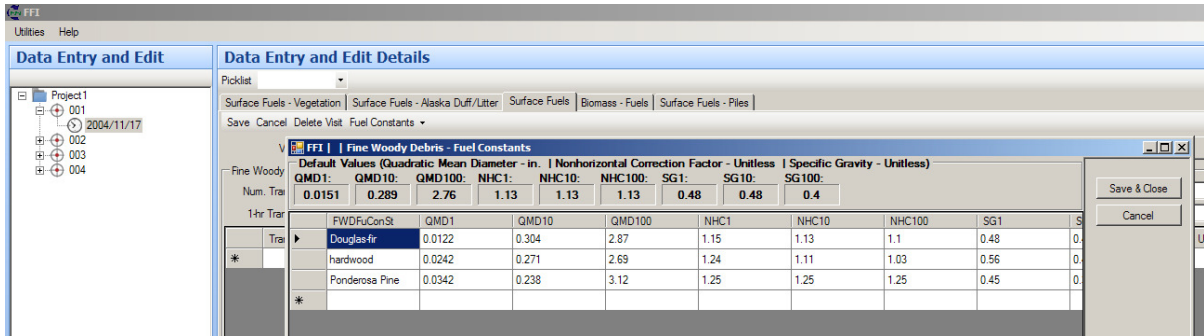


- 1.6 Enter these data in the FWD FCS data grid.

#### FWD Constants

FWDFuConSt	QMD1	QMD10	QMD100	NHC1	NHC10	NHC100	SG1	SG10	SG100
Douglas-fir	0.0122	0.304	2.87	1.15	1.13	1.10	0.48	0.45	0.45
Ponderosa Pine	0.0342	0.238	3.12	1.25	1.25	1.22	0.45	0.39	0.39
Hardwood	0.0242	0.271	2.69	1.24	1.11	1.03	0.56	0.43	0.44

## Fuel Constant Set Exercises



*Note: The information in the header displays the default fuel constant values and cannot be changed.*

1.7 Click **Save & Close**.

### Exercise 2: Enter Fuel Constant Set data for coarse woody debris (CWD)

2.1 Click the **Fuel Constants** dropdown and select **CWD constants**.

2.2 Enter these data in the CWD FCS data grid.

#### CWD Constants

CWDFuConSt	SGth1	SGth2	SGth3	SGth4	SGth5
Douglas-fir	0.450	0.341	0.277	0.137	0.148
Ponderosa pine	0.387	0.349	0.340	0.222	0.220
Hardwood	0.426	0.345	0.328	0.157	0.158

2.3 Click **Save & Close**.

### Exercise 3: Enter Fuel Constant Set data for duff and litter

3.1 Click the **Fuel Constants** dropdown and select **DL constants**.

3.2 Enter these data in the Duff Litter FCS data grid.

#### Duff-Litter Constants

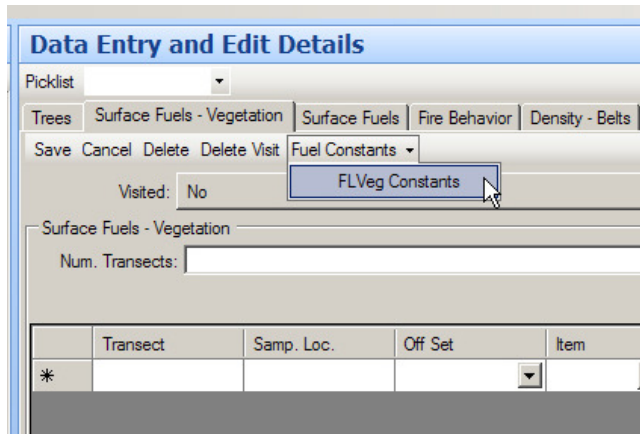
DLFuConSt	LittBD	DuffBD
Douglas-fir	1.73	9.52
Ponderosa pine	1.48	9.67
Hardwood	0.9	6.00

3.3 Click **Save & Close**.

## Fuel Constant Set Exercises

### Exercise 4: Enter Fuel Constant Set data for vegetation

- 4.1 Select the **Surface Fuel –Vegetation** protocol tab.
- 4.2 Click the **Fuel Constants** dropdown and select **FLVeg constants**.



- 4.3 Enter these data in the Vegetation FCS table.

#### Vegetation Constants

VegFuCon	VegBD
Low Shrub	0.15
High Shrub	0.10
Herb	0.05

- 4.5 Click **Save & Close**

#### Notes:

- *You only need to enter the Fuel Constant Sets for one sample event. Then they will be available for all macroplots in the Administration Unit.*
- *You can add or edit Fuel Constant Sets from any sample event with Surface Fuels, Surface Fuels-Alaska Duff/Litter or Surface Fuels-vegetation protocols.*
- *Fuel Constant Set reports are available in Reports and Analysis so you know what constants were used to calculate biomass.*